DEVELOPMENT OF ORIENTATION COURSE

IN SEXISM FOR URBAN MIDDLE/HIGHER

SECONDARY SCHOOL TEACHERS OF DEIHI

(PART COMPLETED)

FINANCED BY: N.C.E.R.T.

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UNIVERSITY BOYBAY

1

PREFACE

The present study, micro in nature and limited in its scope, is the first attempt to determine attitudes of middle/higher secondary teachers towards adult sex roles as well as teacher behaviour in school setting. Although a sizeable number of children in India drop out at the end of primary level, there are quite a few who continue till the end of class XII. Culturally, we are aware that restrictions on females increase subsequent to their attaining puberty. As a consequence, it is quite likely that discriminatory attitudes of teachers at this Stage when the adolescents are undergoing both an identity as well as vocational crisis, might lead to ambiguity in respect of their self - image and role expectations in society.

It is the endeavour of the researchers to give precision and objectivity to observations by assessing teachers attitudes on a reliable attitude scale. If, truly speaking, schools prepare children to be socially well - adjusted as well as economically and emotionally independent, then it would be expected that the messages transmitted at school would conform to the prevailing social/cultural norms.

It is hoped that this innitial effort would inspire further investigation in both rural and non-metro towns of India.

This is of special import in India where the pace of sociological developments and value systems vary regionally as well as rural - urban wise.

REPORT ON DEVELOPMENT OF ORIENTATION COURSE IN SEXISM FOR URBAN HIDDLE/HIGHER SECONDARY SCHOOLS TEACHERS OF DELHI"

ACKHOVLEDGEHENT

On submission of this report (part complete) to N.C.E.R.T.

I wish to express my thanks to the following persons for their co-operation and assistance:

112	Κ.	NISCHOL	-	'n	BENIOR	RESEARCH	OFFICER

Principals of 18 schools (list in Appendix) located in 4 educational districts of Delhi.

I also am thankful to the numerous teachers in the aforementioned schools for their willingness and enthusiatic co-operation in the completion of the project pertaining to assessment of teacher attitudes. Besides, the untiring efforts of Ms Bhargava and Mr V Arora in typing the report deserve special mention.

Madhuri R. SHAH

CONTENTS

	Page
Introduction - Need for the study	1 - 6
Sampling design & method	7 - 10
Details on the respondents	10 - 11
Findings Attitude of teachers towards adult sex roles (Section I) and behaviour in school (Section II) - (By Sex)	12 - 14
Attitude of teachers towards adult sex roles (Section I) and behaviour in school (Section II) - (By type of school - Govt./Non-Govt.)	14 - 16
Attitude of teachers towards adult sex roles (Section I) and behaviour in school (Section II) - (By nature of school - Co-ed/Single sex)	16 - 17
Attitude of teachers towards adult sex roles (Section I) and behaviour in school (Section II) - (By religion)	18 - 21
Attitude of teachers towards adult sex roles (Section I) and behaviour in school (Section II) - (By age)	21 - 24
Attitude of teachers towards triple roles of women-(By sex)	24 - 26
Conclusion	27 - 28
Appendix A	(a) Tool used & its scoring method
1	(b) Tables giving tests of reliability and significance of means
	(c) List of schools in the sample
1	(d) Statements on which male biases are strong
Appendix B	Graphical depiction of results
Appendix C	Related Studies - Indian

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NEED FOR THE STUDY

Introduction

Despite the existing social legislation, there still exists a wide gap between law and observable social behaviour reflecting discriminatory attitudes towards the adult sex roles of men and women.

Even the most liberated individual of today is not free from a set of assumptions or misassumptions that not only differ from person to person but are also subjective.

Factually speaking, both boys and girls start life on a clean slate - it is only later that those responsible for their upbringing, influenced by their cultural milieu decide upon what roles are befitting for the sexes.

Highlighting biological differences between the two sexes, women have traditionally been labelled the "weaker sex" or "weak little pin heads". True enough, on account of strength being measured in terms considered of muscle mass, yes, men are/stronger. But if on the other hand, while considering strength, cognisance is taken of longivity and stress tolerance, then women hold the aces.

The physical dependency of women upon men for protection has often been quoted as a reason for considering "Home to be the place" for women. Agreed,

that during pregnancy, women do need protection but observation reveals that male attitude towards this physiological condition is closely related to the economic class a woman belongs to. It is only among the affluent that the woman is 'a fragile flower'. Who can deny that in the less affluent groups, women continue with their normal chores till the last minute of delivery.

Despite the obvious biological differences between mon and women can one confidently claim that these differences are relavant to the prevalent discriminatory adult roles. Could it not also be that these differences have been given symbolic significance leading women to feel inferior and/or ambivalent about themselves both in respect of physique and mind. As a consequence women have willingly accepted the 'second place' in life.

Again behaviour expectations have differed on grounds that the two sexes are dissimilar in their psychological make up. Undoubtedly certain differences are due to genetics nevertheless enviormental conditioning continues to be an important factor in determining self-images. How else can one explain the fact that men in most societies consider themselves to be emotionless money-spinners?

The best documented difference in almost all cultures has been that of aggression - males being considered both verbally & physically more aggressive than females. Even if this be true, the question is whether in the future this trait is an asset calling for discriminatory roles?

Some of the other sex differences recorded are those in the sphere of abilities - women considered to be having better verbal ability while men better visual spatial ability.

Other than documented differences, several myths have been perpetuated in our culture e.g. girls are considered to be passive while boys active. True if being active means aggressive, yes, boys have an edge but if active is to be understood in terms of activity, curiosity, exploration, then no objective data is available to tilt the balance in favour of boys.

Unfortunately passivity among women has been a situation forced upon them over the years by the urbanised, industrialised society. Is it not a fact that in traditional societies, one still finds women tilling the fields, grinding wheat or pounding rice or for that matter in several countries women/going on mountaineering expeditions and making scientific inventions.

Another myth surrounds the aspect of social ability—underestimated among boys. The fact is, whether it be a boy or girl, the capcity for empathy contributing towards social relationships grows with age & has little to do with sex.

The most contraversial myth surrounds the area of relationship of the adults of the two sexes to young children —whether women or men are more responsive to young babies. So far all societies have accepted women in the role of nurturers. However, whether this is a biological phenomena or whether it is on account of greater contact is a matter not yet settled.

Researches among animals, however, have revealed that carrying a child in the body for a period of time, per se does not necessarily mean that the bearer is nurturant towards it once it is outside the body—What effects nurturing behaviour as noted, is the opportunity of physical contact —females having more contact than males. In an experiment on male rats, it was revealed that after an initial aggressiveness, they showed what is considered "wired — in" female behaviour completely akin to maternal nurturing.

Regardless of the researches, one has no reason to expect or to hope that the two sexes will be just alike, psychologically speaking. Physiologically, of course the differences are obvious. What, however, seems to be of importance to realise is that some of the sex stereotypes created by society are really constraining to both sexes T. WOULD not be too radical to assert existing mat greater relaxation of /rigid conceptualised adult roles would be helpful to both men & women. Specially true is this with regard to women in our society who for centuries have been conditioned to beleive they are "less equal than men". Hope lies in societal attitudes towards them undergoing a change. Perhaps our Prime Minister/right when she said that "the greatest stumbling block to the women's full & equal development, is the mental attitude not only of men but of large numbers of Women themselves because they are so conditioned by their families and the society around them". *1

^{*} Prime Minister Ms Gandhi's speech in Lok Sabha in April 1976.

Family and community, no doubt are important agents in this respect. However, today when a large portion of a young persons life is spent in the school -- "about 10000 hours by the time he/she graduates"*² the school experience plays a significant part in the attitude/ character formation of a child.

Of great importance, therefore, is the need to assess the overt spoken messages and the covert behavioral interactions which are transacted between the teachers and the child. Both consciously and unconsciously, the teachers reflect their values, expectations and attitudes which lead to the development of the childs' self image vis a vis the future role in life.

Considering the importance of teacher attitudes in the determination of the future sex roles of the children, studies in the Indian context were conducted on primary school teachers*³. Among other things, these studies revealed that (a) As against females, male teachers at the primary level had greater preference for restrictive traditional role of women and (b) Both male & female teachers at the primary level had different assumptions with regard to boy and girl pupils e.g. boys expected to be "naturally" naughty while girls "docile and fearsome".

^{*2} Jacob C and Eaton C - American Magazine 1976

^{*3} Nischol K - Teacher Orientation Course on Sexism in the Classroom Delhi and

Nischol K - Influence of exposure to educational material and teacher attitude on school childrens' adult sex roles - Kerala

Culturally, in India, attitude towards growing girls, tends to become further restrictive. Centuries of conditioning have made girls believe that the most suitable adult role for them is that of a Housewife/mother. Considering that socio-economic developments in this country are requiring women to actualise their potentials and take to work outside home, it was felt desirable to determine whether at the adolescent stage too cultural biases are being reinforced in the schools or not. As a consequence the present study was undertaken to:

- (a) Ascertain teacher attitudes towards adult sex roles as well as in the class room situation at the middle/higher secondary school level and
- (b) Subsequently to expose a group of teachers to an orientation course designed to modify their sexist biases, if any.

While determining the teacher attitude, the focus of research was to determine whether statistically significant differences in attitudes exist among:

- (i) Male and female teachers at middle/secondary school level
- (ii) Teachers in government and non-government middle/higher secondary schools
- (iii) Teachers in co-educational and singlesex middle/higher secondary schools.

Sampling Design & Method

The total sample under study comprised of 300 teachers coming from urban middle/higher secondary schools in Delhi. The unit of sampling was schools and therefore the sample was split as follows:~

	Co-ed Schools	Exclusive Boys Schools	Exclusive Girls sch	ools
Government/Aided	50	50	50	=1
Non-government/Bublic	50	50	50	=1
	100	100	100	=3

The universe of urban middle/higher secondary schools obtained was $908*^4$ in 4 educational zones of Delhi:-

	Co-ed	l Non-Govt.	Exclusive Govt.	re Boys Non-Govt	Exclús Govt.	
North Zone - 236 schools (24.38 per cent)	15	2	116	8	95	-
East Zone - 254 schools (26.24 per cent)	12	<u>.</u>	120	1	118	3
South Zone - 249 schools (25.72 per cent)	24	35	98	-	87	5
West Zone - 229 schools (23,66 per cent)	20	21	91	1	95	1

Giving proportionate representation to each educational zone, a sample of 20 government & non-government (Co-educational, exclusive boys & Exclusive girls) was drawn at random from

^{*} Directory of schools - Published by Delhi Bureau of Text Books - 1980.

each zone*5.

Several of the schools falling in the random sample failed to co-operate. In the final outcome, the sample of 300 teachers studied came from 18 schools - 9 government amd 9 non-government (1.9 per cent of the total universe).

Zonal representation of the sample under study was:

North educational zone - 16.67 per cent East educational zone - 38.89 per cent South educational zone - 53.33 per cent West educational zone - 11.11 per cent

METHODOLOGY

Subsequent to the selection of the sample, an attitude questionnaire was devised to provide the basis for determining teacher attitudes (Refer Appendix A-I). This questionnaire, divided into 2 sections comprised of 30 questions in Section I (dealing with teacher attitude towards adult sex roles) and 15 questions in Section II (dealing with teacher attitudes towards students in schools setting).

^{*5} Ref - Tippetts Table of random numbers - (As the universe was less than 1000, the total schools were numbered 0001 to 0968.

Section I of the questionnaire comprised of equal number of statements which would reflect teacher attitudes on triple roles of women namely women as worker, women as a person and woman as a housewife/mother*⁶.

Each statement on the questionnaire could be responded to on a five point scale ranging from +2 to -2. The numerical score of the statement was given a positive or negative score depending upon whether the response was non-biased or biased respectively. In case, the response reflected equal agreement & disagreement, the response was given no score (Refer Appendix A-II).

In as much as an individuals perceptions are influenced by experiences, values, home background and sex, the draft questionnaire was evaluated by three male and three female judges varying in age, experience, socioeconomic background and occupation.

Modifying the draft questionnaire on the basis of the comments received, the said tool was tried out on a hetrogenious group of teachers to remove any ambiguities.

Subsequently the questionnaire (self administered) was given to groups of teachers in the various schools drawn in the sample. (Refer Appendix A II(a) for list of schools)

^{*} Woman as a person - Statement - 1,4,7,10 ---- etc.

Woman as a worker - Statement - 2,5,8,11 ---- etc.

Woman as a housewife/mother Statement 3,6,9,12---etc.

Prior to testing the hypothesis under study, it was felt necessary to determine the reliability of the tool used. On account of lack of time, the test-retest method could not be used. However the 'r' value was determined on the basis of the split-half method—dividing the test into odd — even statements (Refer Appendix for details of Test of Meliability — Tables III (a) & (b)).

The 'r' value obtained for Section I being.8 while for being.7,
Section II/the researchers felt that the tool constructed could be relied upon to give similar results regardless of the change in sampling or repetetive administration.

The Respondents

The total sample of 300 teachers under study came from schools distributed in the 4 Educational Zones of Delhi as follows:-

East Zone = 112

West Zone = 27

South Zone = 120

North Zone = 27

(For detailed breakdown in terms of sex, relegion, age education and type/nature of school refer Appendix A-IV)

Of interest to note was:

- (a) No representation of teachers came from:
 - (1) Government schools in the West Zone
 - (2) Co-educational schools in North and East Zones.
 - (3) Exclusive girls schools in the West and South Zones.

(b) Representation of Muslim Teachers in the sample was neglible.

(c) Few teachers were under-graduates.

FINDINGS

Attitude of Teachers towards adult sex roles

The frequency distribution of scores among respondents
(By sex) obtained in the schools regardless of whether
employed in government, non-government, co-educational or singlesex schools was as follows:-

Table I

Males \approx 82 Females \approx 218 Total \approx 300

Frequency distribution of Scores (Section-I) By Sex (Attitude towards adult sex roles)

Class () inter- () val ()	-280 to0 -240	-230 to0 -190	-180- to0 -140	130-8 to0to -90-4	30-30 00to()t 00+10	20 70 coita 60110	12≬17 to≬to 16≬21	(22) (to) (26)	270 320 to0 to0 310 360	370 tol 410	420 to0 460!	470 to0 510!	520 to0 560	570 to) 610
Males	2	3	5	4 6	14 1	11 6	4. 5	6	6 5	2	2		1	
Famales	-		2	2 4	8 1	19 14	24 27	18	29 23	16	18	8	5	1

At the outset it is noted that both among male & female teachers, the dispersion of scores is very wide indicating that there are teachers of both sexes who are inclined to be either too restrictive or too liberal in their concept of adult female role. However, as against 7.3. per cent female teachers there are 41.0 per cent male teachers who are on the whole negatively inclined towards liberalisation of female adult roles(Frequency distribution from -28 to +1). Furtheremore reference Appendix A-V it is noted that the difference between the mean scores of male & female teachers is statistically significant. The hypothesis that there is no differences in the attitudes of male & female teachers towards adult sex roles is annualed.

The above mentioned result does not come as a surprise. For centuries, men in India, have been conditioned to believe that whereas "sky in the limit" for them, the life of women should be restricted to home tasks. The newly found emancipation of women, perhaps poses a threat to male superiority and unconsciously through their attitudes the teachers are reinforcing the traditional outlook.

Women teachers too do not reveal a total freedom from their existing limits on development. For one thing, they may be lacking the confidence in their capabilities. Here likely, however, seems to be fear of "loss of femininity" and a sense of guilt when confronted with any situation that tends to clash with their traditional roles.

As regards, teacher attitudes towards students in the classroom, the results obtained were as under:

Table II

Males = 82

Females = 218

Total = 300

Frequency of distribution of scores - By Sex (Behaviour in School) Section II

Class interval	-140 to0 -110	-10 to	1-6 to 1-3	1-2(to(+1) 2)to) 5	6 to 9	(10) (to) (13)	14 to 17)18)to)21)22)to)25	(26) (to) (29)	30 & () above()	Total
Males		9	9	7	7	11	0	7	11	6	5	2	= 82
Females	2	3	1	8	11	25	33	30	37	42	17	9 ,	= 218

Considering that the dispersion of scores in the case of teachers of both sexes is near similar, it is

safe to opine that highly discriminatory as well as non discriminatroy behaviour would be obtained amongst the teachers in the school situation. Herein too against 52.4 per cent male teachers, there are only 0.2 per cent female teachers reflecting negative outlook against students by gender. (Scores from -14 to +1)

The fact, however, that the means obtained in respect of male & female teachers is different — higher in the case of female teachers (Refer Appendix A-VI), it is apparent that on the whole, female teachers appear to be less biased towards the sexes in the school situation. The difference between the means being statistically significant, one can confidently say that regardless of the present sample — teachers by sex would decidedly reveal a difference in their behaviour towards boy & girl student in the school setting.

With regard to the type of schools from which the sample was drawn, the frequency distribution of scores given under, does not show a difference in the dispersion of scores. Evidently both in government and non-government schools, there would be teachers desiring a liberalisation of existing female roles as well as some who prefer the current constraints on female development.

Table III

Government schools = 150 Non-Government schools= 150

Total= 300

Frequency distribution of Scores - Section I (Govt. & Non-govt. School)

(Attitude towards adult sex roles)

07000	28 (- to (24 ()-	-23() to() -19()		130- to01 90-				7()to()11()12()to()16(17(to(21)	22 to 26	27 (to) 31 (32 (to (36 (370 to≬ 41≬	420 to0 460	.' *	52(to() 56()
Teachers in Govt. Schools	2	2	3	4	9	13	21	13	20	18	12	12	9	7	4	gud	1
Teachers in Non- govt. schools	emojumeja (**e _{rod} a Mil	2 g - Mar on philips received in 18 g - 18 g	4.	2	3	5	9	11	7	13	12	23	20	10	16	9	5

The point that could, however, be noted is that against 22.0 per cent teachers in government schools, there are 9.3. per cent teachers in non-government schools who reflect stronger bias in respect of pupil behaviour and expectations (Scores ranging from -28 to +1).

Reference to Appendix A-VII, however, it is observed that the mean score obtained by teachers in non-government schools is not only higher than that obtained by teachers in government schools but the difference between the two mean scores is statistically significant at 5% level.

The results indicate that the hypothesis namely there is no difference in the attitudes of teachers in government schools and non-government schools with regard to adult sex roles does not hold good.

With regard to the attitude of teachers towards students in the school setting (Reference Appendix A-VIII) it is noted that the mean scores on the attitude scale (Section II) differs significantly. What is apparent is that teachers (regardless of sex) in non-govt. schools tend to be less biased compared to teachers in government schools. The difference in mean scores being statistically significant at 5% level, the results cannot be attributed to chance.

In order to determine whether the presence of students of both sexes in a school tend to influence the attitudes of teachers, the researchers classified the teachers according to their employment in co-educational & singlesex schools.

The results obtained were:-

Teachers in co-ed schools = 100
Teachers in singlesex schools = 200

Total = 300

Enon-coeducational schools - Section I

(Attitude towards adult sex roles)

in Co-ed - - - 3 5 5 9 11 13 11 3 8 9 8 9 2 4 C

Teachers in single 2 2 7 3 7 13 21 13 14 20 21 27 19 11 11 6 2 1 sex schools

obtained in both cases are widely dispersed in both cases—
the one difference being that teachers in singlesex schools
revealing stronger biases in more numbers(13 per cent
negative scores among teachers in coeducational schools
as against 17 per cent in / sex schools (scores ranging
from -28 to +1).

Reference Appendix A-IX, however, it is observed that the mean scores obtained by the different sets of teachers are not the same. A Application of the test of significance indicates that the difference is not statistically significant and could be due to fluctuation of sampling.

Observation of results in respect of teachers attitude towards students in school setting (Reference Appendix A-X), it is noted that teachers, regardless of whether they are teaching in co-education or / sex schools do not reveal attitude differences towards students which are statistically significant.

Although, the present study was primarily concerned in determining whether attitude differences among urban middle/higher secondary school teachers existed by sex, by nature & type of schools, yet the researchers being aware that attitudes are the resultant of a complex set of factors like religion, socio-economic background, ideologies and an individuals own upbringing in childhood, a further analysis was done in respect of teacher differences in attitudes by religion*7 and age.

^{*7} The population of Muslim teachers being only 4 the differences in mean scores were tested only for Hindu (including Sikh) & Christian teachers.

The sample under study comprised predominatly of Hindu teachers with a sprinkling of Muslim teachers and a slighter larger number of Christian teachers mainly in Hon-government schools. Whereas teachers in Government schools possibly were reflecting their personal ideologies, the chances were great that the attitudes of the Christian teachers employed in schools either headed by Christians or run by Christian group, were revealing both their own as well as some part of the ideology upheld by the school authorities.

The frequency distribution of scores on Section I (attitude towards adult sex roles) and Section II (attitude in school setting) were as follows:-

Table V (a) Hindus = 255

Christians = 42

Total = $296*^8$

Frequency distribution of Scores - By religion

Section I

(Attitude towards adult ser roles)

Class intervals Hindu Christians -2824 2 0 -2319 2 0 -1814 6 0 -139 5 1 -84 11 0 -3 - +1 20 1 2 - 6 28 2 7 - 11 18 2 12 - 16 26 3 47 - 21 25 6 22 - 26 21 3 27 - 31 25 11 32 - 36 25 3 37 - 41 14 3 42 - 46 16 4 47 - 51 6 2 52 - 56 6 0 57 - 61 1 1 Total 255 42					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Class interval	s Hindu	Christians	. dans. Tyru (handahalising, historia) . alam. He s'alam handahari 1914 (A
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-2824	2	0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	*	-2319	2	0	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-1814	6	· · O	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-139	5	1	
2 - 6 28 2 7 - 11 18 2 12 - 16 26 3 17 - 21 25 6 22 - 26 21 3 27 - 31 25 11 32 - 36 25 3 37 - 41 14 3 42 - 46 16 4 47 - 51 6 2 52 - 56 6 0 57 - 61 - 1		- 84	11	Q	
7 - 11		- 3 - +1	20	1	
12 - 16 26 3 17 - 21 25 6 22 - 26 21 3 27 - 31 25 11 32 - 36 25 3 37 - 41 14 3 42 - 46 16 4 47 - 51 6 2 52 - 56 6 0 57 - 61 1		2 - 6	28	2	
17 - 21 25 6 22 - 26 21 3 27 - 31 25 11 32 - 36 25 3 37 - 41 14 3 42 - 46 16 4 47 - 51 6 2 52 - 56 6 0 57 - 61 1		7 ~ 11	, 18 .	2	
22 - 26 21 3 27 - 31 25 11 32 - 36 25 3 37 - 41 14 3 42 - 46 16 4 47 - 51 6 2 52 - 56 6 0 57 - 61 1		12 - 16	26	3	
22 - 26 21 3 $27 - 31$ 35 11 $32 - 36$ 25 $37 - 41$ $42 - 46$ $47 - 51$ $52 - 56$ 6 0 $57 - 61$ 2		17 - 21	25	6	
37 - 41 14 3 42 - 46 16 4 47 - 51 6 2 52 - 56 6 0 57 - 61 - 1			21	3	
37 - 41 14 3 42 - 46 16 4 47 - 51 6 2 52 - 56 6 0 57 - 61 - 1		27 - 31	25	11	
42 - 46 16 4 47 - 51 6 2 52 - 56 6 0 57 - 61 - 1		32 - 36	25	3	
47 - 51 6 2 52 - 56 6 0 57 - 61 - 1		37 - 41	14	3	
52 - 56 6 0 57 - 61 - 1		42 - 46	16	4	
57 - 61		47 - 51	6		0
		52 – 56	6		
Total			, pang 	A many of the second contract of the second c	المستعددين بين بين
		Total	255 	and the state of t	· ing = 2 with the security of

^{*8 4} Muslim teachers deleted in analysis.

Table V (b)

Hindus = 255

Christians = 42

 $Total = 296*^9$

Frequency distribution of Scores - By religion Section II

(Teacher attitude in school)

Class intervals	Hindus	Christians	,
-1411	2	. 0	
-107	12	0	
-63	10	1	
-2 - +1	15	0	
2 - 5	17	. 0	
6 - 9	32	3 .	;
10 - 13	34	8	! .
14 - 17	30	8	
18 - 21	39	5	•
22 - 25	38	1 1	
26 - 29	15	4	
30 & above	10	2	
Total	· 255	. 42	

Noted from the above is:

- (a) that against 18.0 per cent Hindu teachers,
 there are 4.8 Christian teachers whose
 attitudes are on the whole biased against
 liberalisation of females roles (Scores -28 to+1)
- (b) that against 15.3 per cent Hindu teachers there are 2.4 per cent teachers reflecting biases against students in the school setting (Scores -14 to +1)

^{*9 4} Muslim teachers deleted in analysis.

Reference Appendix A-XI, one notes that in respect of teacher attitudes towards adult sex roles:

- (a) The mean score of Christian teachers is higher than that of Hindu teachers evidently the former are more inclined towards actualisation of females.
- (b) There is a wider variation in the attitudes of Hindu teachers in comparison to attitude among Christian teachers evidently amongst Hindus there are some who whole heartdly agree with liberalisation of female roles whilst others uphold traditional roles.
- (c) The difference in mean scores of Christian and Hindu teachers is statistically significant at 5% level revealing that followers of Christianity (regardless of sample changes) tend to uphold the view of greater equality amongst the sexes.

With regard to attitude of Christian & Hindu teachers towards students in the school situation (Appendix A-XII) results obtained are similar to that in respect of general attitude towards adult sex roles. Herein too, Christian teachers reveal less biases against females and their attitudes are significantly different from those of Hindu teachers.

Observation indicates that traditionalism has greater acceptance by those belonging to higher age groups. To lend objectivity to the observation, the researchers analysised the scores on the attitude scale after categorising the sample into three age-groups namely 22 years to 33 years; 34 years to 44 years and 45 years and above (herein after referred to as categories (a), (b) and (c) respectively.

The frequency distribution of scores on Section I i.e. attitudes towards adult sex roles and Section II i.e. teacher behaviour in school situation are given below:

m 7 2 77m	•	
Table VI	Age Group $(a) =$	111
	(b) =	120
Frequency distribution of	of Scores (c) =	69
By age	Total	300
Section - I		٠.
(Attitude towards adult	sex roles)	

Class	intervals	Age Group	A Age Group B	Age Group	С
- 28	to -24	1	1		
- 23	to ~1 9	- .	1	1	
-18	to -14	2 .	3	1	
-13	to - 9	2	3	2	
- 8	to -4	2	. 5	3 .	
- 3	to +1	· 6	7	8'،	
2	t o 6	12	11	9	
7	to 11	9	7	5	
12	to 16	7 ·	13	8 .	
17	to 21	7	18	6	
22	to 26	10	10	3 .	
27	to 31	15	13	8 '	
32	to 36	10	12	5	•
37	to 41	9	8	2	
42	to 46	12	5	3	
47	to 51	4	2	2	
52	to 56	2	1	3	
_57	to 61			-	
	motel.	117	77. 120	69	A Section States

Table VII

Age Group (a)=111

(b)=120

Frequency distribution of Scores

(c)= 69 Total 300

By age

Section - II

(Teacher behaviour in school situation)

Class intervals	Age Group(a)	Age Group (b)	Age Group (c)
-14 to -11	1	_	1
-10 to -7	3	6	3
- 6 to - 3	2	4	3
-2 to +1	4	8	3 .
2 to 5	. 6	. 7	5
6 to 9	13	15	8
10 to 13	10°	17	15
14 to 17	13	18 :	7
18 to 21	19	21	8
22 to 25	19	18	11
26 to 29	14	.5	2
30 & above	7	.1	3
Total	11 1	120	69

Noted from above is that although the attitude scores are widely distributed in the case of all age groups yet against 11.7 per cent in age group (a), there are 16.7 per cent and 21.7 per cent in age groups (b) & (c) who are on the whole negatively inclined towards relaxation of constraints on adult female roles (frequency scores from -28 to +1).

Based on similar observation, it is observed that in the school setting against 9.0 per cent in age group (a), there are 15.0 per cent & 14.5 per cent in age groups (b) & (c) respectivly who are on the whole negatively biased against students by sex.

Application of test of significance to the mean scores obtained in each age group with regard to adult sex roles (Appendix A-XIII) (a), (b) & (c) it is noted that:-

- (1) The difference in the mean scores obtained by age group (a) & (b) is statistically significant. Considering that the mean score of age group (a) is higher than that of (b), one can confidently expect teachers of younger age group (a) to be less biased towards female roles.
- (2) Although there is a difference in the mean scores of teachers in age groups (b) & (c) (it being higher in the former case) yet the difference not being statistically significant one could opine that the difference in attitudes of teachers in these two groups could be due to chance.
- (3) The attitudes of teachers in age groups (a) are significantly different from those in age group (c) those in the latter groups revealing greater adherance to traditional female roles.

Considering the results obtained on Section II (teacher behaviour in school) to be the same (refer Appendix A-XIV (a), (b) & (c)) it would be safe to opine that teachers below the age of 33 years would decidedly not only be in favour of female equality in all spheres of life but would alko be less biased in their attitudes towards students in the school setting.

The role of the Indian urban female today seen in the context of its functional significance for the social system is generally more than one-she is a wife, mother and homemaker, she often undertakes useful economic work for the financial benefit of the family and as an individual attempts to actualise her dormant potential. Nonetheless, what a women does in each of these segments of her life, hang together and operate as a coherent role.

Recognising the impact of centuries of social conditioning, supported by relegious scriptures upon the prevailing attitudes towards different segments of the female role, the data obtained was further analysed (by sex) according to the responses received on each segment (Refer page ? of the report for various statements eleciting attitudes on different segments)

Table	VIII

Males = 82

Frequency distribution of scores on triple roles of

Female (By sex)

Females = 218Total = 300 '

(Women as a person, as worker and as mother/housewife)

Class interval	$\mathbb{F}_{\mathtt{P}}^{*}$		3	ŘH [®]	F.,/*		برهال به _خ اطاس	
والمتعارض والمتع	19	F	M	F	M	F		
-26 to -21	_		_	_	-			
-20 to -15.	-		_	سحي	_	-		
-14 to -9 .	4	2	10	. 9	.3			
- 8 to − 3	5	4	30	32	10	5		
-2 to +3	19	15	18	81	37	48		
4 to 9	20	43	15	61	28	93		
10 to 15	18	` 56	3	31 .	3	61		
16 to 21	.12	65	1	4 -	1	11		
22-to 27	4	33	_		<i>*</i> -	-		
Total	82	218	82	218	82	2 1 8		

^{*10} Fp = Female as a person

FHW Female as housewife/mother

Fw = Female as worker.

Means and Standard Divation (by sex)

Women as person

$$X_{\rm F} = 13.54$$
 $\sqrt{-F} = 7.74$

$$\mathbf{X}_{M} = 7.00$$
 $c M = 8.76$

Women as Housewife/mother

$$\Sigma_{\rm p} = 2.84$$
 $\circ F = 6.54$

$$X_{\rm M} = -.67$$
 $--M = 7.32$

Women as worker

$$X_{\rm F} = 7.19$$
 $-F = 5.28$

$$\Sigma_{\rm M} = 2.04$$
 $\sigma = 5.34$

Reference to the above table it is noted that:

- (a) As the average (means score) obtained by female respondents on each of the segmented roles is higher than that of the males, it is obvious that comparatively speaking males are more inclined towards the perpetuation of existing restrictions on female development. The strongest reaction is revealed against liberalisation of the role of the female as a mother/housewife followed by her role as worker (Refer statements recorded in Appendix Λ marked Male Biases for details of aspects on which male biases are strong).
- (b) Taking account of the negative through embivelent to minor agreement responses (-24 to +3) it is noted that opinion of male to female respondents is 34.1 per cent to 9.6 per cent in respect of liberalisation of personal development of females; 70.73 males as against 55.96 females in respect of female role as mother/housewife and 60.97 males as against 24.31 females with regard to female role of worker.

Evidently it is not only that males attitude is in favour of perpetuation of existing constraints but it is the attitudes of females too which act as a barrier towards their release from limitations on their role of mother housewife and worker. To put it bluntly wonen are their own enemies. Whereas on one hand they desire personal development, they are hesitant to be shorn of total responsibility in the home as well as becoming competitors to men in the field of gainful employment outside home. One wonders what development can be expected of a developing nation whose half the population (female) is disinclined to be equal partners of men in all areas of life. Especially disconserting is this phenomena, in view of the fact that today there are far more females than male teachers in schools -- as such the mossages which the female students will be receiving even from their own sex would be having stronger effect in acting as barriers in their future development as equals.

Reference to tables XV (a), (b) & (c) in the Appendix A, it is noted that difference in mean scores of male & female teachers are statistically significant in respect of all the segmented roles of adult females. This being the case, the chances are that the adolescent group (especially that of girls) being taught by the middle/higher secondary school teachers in Delhi would be put in a double bind. They would, in several areas be recepeints of conflicting messages from teachers. Even students studying in singlesex schools would be faced with the situation of receiving guidance from teachers varying widely in their opinions with regard to adult sex roles.

Conclusion

The present study although niero in nature and conducted only in Delhi Metro, reveals definite ambiguity in the minds of educators responsible for providing guidance to the growing generation.

At the middle/higher secondary stage where most children are searching for their identity and their future goals in life, it is apparently a very disconcerting situation that the adults involved in their guidance are themselves unsure of what they wish their students 'to be' or 'to achieve'.

teachers differ significantly in their attitudes towards the two sexes (rales being more traditional than females in their outlook) yet the female teachers too who are role models to their oun sex, appear to transmit confusing nessages. Whereas on one hand they desire the girl students to develop their personalities to the maximum, yet on the other hand they expect the girls to continue to be "traditional" housewife/nothers as well as workers in limited areas only. Is it that they themselves feel guilty for having crossed the threshold of the home

and look upon work only as a supplement to family income rather than career? Or is there a feeling of guilt among them that they are responsible for the increasing anti-social habits among their own children on account of being physically away from home or is it that they are afraid of losing their hold in the home where for centuries they have held the strings?

On the part of men, it is apparent that they appear to be unconcerned about being nurturants and look upon female dent into the work force as a threat to their security.

The researchers feel that similar studies need to be conducted in several more urban and rural towns of India so that one could be in a more authentic position with regard to opinion of educators towards the adult sex roles.

Stemming from these results the orientation course for urban middle/higher secondary teachers is being planned.

ATTI PUDINAL QUESTIONMAIRE

The following questionnaire (Section I reflects your general attitudes towards adult sex roles while Section II reflects your attitudes toward the school situation) attempts to investigate teacher attitudes. There are no "right" or "wrong" answers. You are asked to react to each statement spontaneously, indicating degree of support or non-support. Certain statements are the result of observational facts and studies. However, you are required to indicate your agreement/disagreement independent of conclusion.

- A. Strongly Agree -
- B. Mildly Agree -
- C. Equally Agree and
 Disagree -
- D. Mildly Disagree
 - E. Strongly Disagree -

It is important that you respond as you really view the situation. Try not to qualify and make exceptions to the statements, but rather react quickly to them. Make only one choice per statement, using the appropriate alphabetical symbol A,B,C,D & E. Do not leave any blanks.

NALLE

AGE

SEX

RELEGION

QUALIFICATION (EDUCATIONAL)

YEARS OF SERVICE (TOTAL)

SCHOOL

α φ A CT

SECTION I

ATTITUDE TOWARDS ADULT SEX ROLES

Agree/Disagree

- 1. Both men and women should express their emotions freely without fear of losing their sexual identity e.g. a man when crying need not be considered 'sissy' nor a woman when laughing heartily a 'tomboy'.
- 2. A successful marriage requires greater adjustment on the part of the women than man.
- 3. Women do not lose their femininity when they perform jobs usually executed by men.
- 4. Women should limit their friendships to other women only.
- 5. Hen should not sacrifice their professional ambitions in favour of domestic obligation, while women should.
- 6. Career should take precedence over every thing else in the life of women regardless of their marital status.
- 7. Role segregation e.g. men to be breadwinners and women to be homemakers, is important for stable Tanily life.
- 8. Hany emotional adjustment problems of children are primarily due to mothers working cutside home.

Agree/Disagree Responses

- 9. Social institutions, such as schools, colleges, destitute homes, Social Telfare Organisations, would benefit more if headed by women at the policy-making and admini-strative level.
- 10. As a rule girls are less invellegent than boys.
- 11. Possibility of marital disharmony is greater where vives are successful career women.
- 12. Momen hundle routine, repetitive tasks between than creative and innovative ones.
- 13. Higher education is an embellishment in the martinenial prospects of women.
- 14. Harried career women should normally attack greater importance to the career of their husbards than to their own achievment.
- 15. Jobs for women should be limited to those which are an extension of home tasks such as teaching, nursing etc.
- 16. If there is a difference of opinion between husband and wife the opinion of husband should finally prevail.
- 17. Even when both spouses work, it should still be the duty of women to attend to household tasks and care of children.

- 18. Today, woman can compete in all areas of work without being considered masculine.
- 19. It is more becoming of women to be modest and submissive, allowing men to lead them.
- 20. After marriage, men should take decisions on important financial matters leaving the decisions on home tasks and children to women.
- 21. As in the case of men, womens choice of career should be determined by their interests and aptitudes rather than by the demands of tradition.
- 22. Self-development is just as important for women as it is for men.
- 23. Stimulating, interesting women who are independent and can stand on their feet make better wifes than those who function as make appendages.
- 24. Women today can successfully make a dent in areas of work, traditionally considered male domains.
- 25. Hore than companionship, it is the physical appearance of women which is of greater importance to men.
- 26. Marriage, not career, is the ultimate goal of women.

- 9. Social institutions, such as schools, colleges, destitute homes, Social Telfare Organisations, would benefit more if headed by women at the policy-making and administrative level.
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- 11. Possibility of marital disharmony is greater where tives are successful career women.
- 12. Monan handle routine, repetitive tasks between than creative and innovative ones.
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- 16. If there is a difference of opinion between husband and wife the opinion of husband should finally prevail.
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- 22. Self-development is just as important for yomen as it is for men.
- 23. Stimulating, interesting women who are is a independent and can stand on their feet make better wifes than those who function as male appendages.
- 24. Women today can successfully make a dent in areas of work, traditionally considered male domains.
- 25. More than companionship, it is the physical appearance of women which is of greater importance to men.
- 26. Marriage, not career, is the ultimate goal of women.

- 27. Qualified women when in positions of authority over men need not generate resentment among men.
- 28. Women have the right to decide in such matters:
 - (a) their marital status(Harriage, divorce, singlehood)
 - (b) Mode of dress
 - (c) Choice of friends
 - (d) Social activities.
- 29. Harried life does not suffer if women take to career seriously.
- yo. Dual responsibilities of home and work cripple women emotionally and mentally.

SECTION II

APTITUDE TOWALDS STUDENTS IN SCHOOL SETTING

Agree/Disagree Responses

- Boy and girl students should be seated in class seperately.
- 2. Boys and girls should not be asked to do similar tasks e.g. boys should help in doing tasks of nanual strength (gardening, fretwork etc.) while girls should help in cooking school meals.
- 3. When boys and girls are equally involved in a particular disciplinary problem, girls should be less severely disciplined.
- 4. Work experience opted by boys and girls should be commensurate with their individual interests rather than with tradition.
- 5. Girls should not participate in organised competitive games like football, hockey, cricket.
- 6. Boys can be noisy and aggressive; not girls.
- 7. Peachers should intervene when boys and girls tend to discriminate against each other in games and other school activities.
- 8. Boys should be singled out for criticism if they cry when hurt and girls when they laugh heartily.
- 9. Joint play of boys & girls during recess should be discouraged.

Agree/Disagre Responses

- Teachers should avoid use of language that arbitrarily and discriminatority assigns traits to either ser e.g. girls are easily prone to teams or boys lose nothing if they are pronuscious.
- 11. It is reasonable to expact boys to do better in mathematics and girls in languages.
- 12. Teachers should not pressurise girls to work hard as high academic achievement is not as important for them as for boys.
- 15. If in text content there is reference to male achievers in one particular field teachers should, also a point of referring to success of women in similar (if appropriate) or different fields.
- 14. Boys and girls should be severely reprimanded if seen to be friendly with each other.
- 15. Class leadership or responsibilities should only be assigned to boys.

ATTITUDE QUESTIONNAIRE

SCORING SHEET

Statement No.	Q A	В	Q G	D	0 E	Statement No.	Å Å	() B	С	D D	E
1	+2	+1	0	_ 1	-2	These rights represent the second	-2	-1	0	+1	+2
2	-2	- 1	0	+1	+2	2	- 2	-1	0	+1	+2
3	+2	+1	0	-1	- 2	3	- 2	-1	0	+1	+ 2
4	- 2	-1	0	+1	+2	4	+2	+1	0	-1	-2
5	- 2	-1	0	+1	+2	5	-2	-1	0	+1	+2
6	+2	+1	O	-1	-2	. 6 .	2	-1	0	+1	+2
7	-2	1	0	+1	+2	7	+2	+1	Ö	-1	- 2
8	- 2	1	0	+1	+2	8	- 2	1	0	+1	+2
9	+2	+1	O	1	- 2	9	- 2	-1	0	+1	+2
10	- 2	-1	0	+1	+2	10	+2	+1	0	~1	-2
11	~ 2	-1	0	+1	+2	11	-2	- 1	0	+1	+2
12	-2	-1	0	+1	+2.	12	-2	-1	0	+1	+2
13	- 2	- 1	0	+1	+2	13	+2	+1	0	-1	- 2·
14	- 2	- 1	0	+1	+2	14	-2	~ 1	0	+1	+2
15	- 2	-1	0	+1	+2	15	-2	· -1	0	+1	+2
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17	- 2	1	0	+1	+2						
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26	- 2	-1	0	+1	+2						
27	+2	+1	0	1	- 2						•
28	+2	+1	0	-1	- 2	•					
29	+2	+1	0	-1	- 2						
30	- 2	-1	0	+1	+2						

Max score of: Non biased = +66

Biased = -66

Max score of:

Non biased = +30 Biased = -30

LIST OF SCHOOLS - DELHI

Sardar Patel Vidyalaya - Lodi Estate (South Zone)

St. Thomas School - Handir Marg (East Zone)

St. Columbus - Baba Kharak Singh Marg (East Zone)

Convent of Jesus & Mary - Bangla Sahib Marg (East Zone)

Boys Higher Secondary School - Lajpat Nagar (South Zone)

Co-educational Govt. Higher Secondary School -

R.K. Puram, Sector II (South Zone)

Presentation Convent - Kashmore Gate (North Zone)

Central School - R.K. Puram Sector II (South Zone)

St. Xavier School - Raj Nivas Harg (North Zone)

Government Girls Higher Secondary School - Vivek Vihar - (East Zone)

Government Boys Higher Secondary School - Vivek Vihar (East Zone)

Government Girls Higher Secondary School - Arambagh Lane (East Zone)

Government Girls Higher Secondary School - Jama Masjid (East Zone)

United Christian School - Raj Nivas Marg (North Zone)

Mount St. Mary - Cantonement (West Zone)

Government Co-educational Higher Secondary School - Chitranjan Park (South Zone)

Army Public School - Dhola Kuan (South Zone)

Springdales School - Pusa Road (West Zone)

QUESTIONIMAIRE
ATTITUDE
Q.
RELIABILITY

ATTITUDE ON ADULT SEX ROLES SECTION I

to 025 to 0for $to 025 to 0$ for $to 025 to 0$ 240290fdxfdxfdxdy7-281126014-421267224-48966861-6161411/0/ -410001/5/ -535353384/84/ 4/32/ 56/ 341023061773/56/ 4/64/ 8321281083/56/ 4/64/ 83212810861111=7566118321114=756611844=+121844=+121844=+1214176= 971	
f fdx fdx ² 7 -28 112 14 -42 126 24 -48 96 61 -61 61 41 0 0 0 53 53 53 53 7 58 116 232 7 54 102 306 8 32 128 8 32 128 1-121	
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1.7-00 2 1.7-87 2/-47 6/07 19/58/ 14/56/ 15/78/ 1/8/ 1/8/ 224	168
10 to 14 1 1 5 /-5/ 8/8/ 13/26/ 5/9/ 	58
5 to 90 0 2 \(\text{O} \) 19\(\text{O} \) 15\(\text{O} \) 11\(\text{O} \) 6\(\text{O} \) 0	0
-5 tol 0 tol -2 -1 5 [24] - 6 [36] 5/97 8/32/ 9/18/ 11/22/ 22/22/ 3/07 5/07 - 11/-11/ 1/-4/ 1/-2/ 1/-5/ 1/-3/ 	33
	104
-10 to -3 1 /12/ 3/18/ 2/6/ 2/6/ - - 9 9	63
-15 to -15 to -4 -4 -7 -10 -10 -10 -10 -10 -10 -10 -10	32
	Fdxdy
x(fo) y(fe) Class interval -15 to -11 -5 to -1 0 to 4 5 to 9 10 to 14 15 to 19 20 to 24 25 to 29 25 to 29 Frequence Fay	Fdx

 $\frac{756 - 50.013}{1062.767 922.197} = \frac{705.987}{52.6 \times 30.36}$ 11

Co effecient of reliability = $\frac{2r}{1+r}$ i.e. $\frac{2 \times .715}{1+.715}$ = .832

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
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BREAKDOWN OF THE RESPONDENTS

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vt. hools	14)Females 50	<u>-</u>	i'ema.Les —	Wales () 30	'emales 49	<u>filales</u> 5	<u>Premale</u> 2	150
n Govt. hools	7	41	9	18	10	31	7	27	150
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ndus	17	75	7	15	38	76	8	18	254
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ristian	4	15	2	3		4	4	10	42
e group - 33 yrs.	4	42	4	7	16	24	5	9	111
e group 4 - 44 yrs.	9	33	4	4	14	39	5	12	120
e group & above	8	16	1	7	10	17	2	8	69
raduate	11	37	2	7	16	33	3	9	118
stgraduate	10	52	7	10	23	45	9	20	176
ider raduate		2		1	1	2	-		6

Appendix A-V

Testing the means for significance (Female Teachers = 21

SECTION I

Male Teachers $=\frac{1}{3}$

(Attitude towards adult ser roles)

Č	to a summer describer a	F_{f}	Fm	
-23 -	-24		2	$X_{\hat{\Gamma}} = 24.48$
-23	- 19	-	3	$X_{m} = 0.73$
-18	-14	2 '	5	
- 13 -	- 9	2 .	4	= 17.83
-8 -	- 4	4	6	Standard Error
-3 -	+1	8	14	C. T. 1. 1. 2. 2. 1. 1. 2.
2 -	6	 9	11	S.E. = $\int \frac{\mathbf{F}^2}{n_1} + \frac{3 \cdot \mathbf{H}^2}{n_2}$
7 -	11 3	14	6	Libomober
12 -	16	24	4	Whereby
17 -	21	27 ,	5	n ₁ = no, of females
22 -	26	18	6	$n_2 = no.$ of males
27 -	31	29	6	$=\frac{15.31^2}{210} + \frac{(17.83)^2}{82}$
32 –	36	23	· 5	= 1.08 + 3.88
37 -	41	16	2	= 14.96
42 -	46	18	. 2	= 2.23
47 -	51	8		
52 -	56	5	1	•
57 -	61	1		•
		218	82	
X - X	<u>-</u>			

Since the difference between means greater than 1.96 S.E. at 5% level of significance it cannot be attributable to chance.

C I = Class Interval

Fr = Frequency obtained among female teachers

Fm = Frequency obtained among the teachers.

Testing the means for significance (Female Teachers = 218

(Teacher attitude in school) vs

SECTIONII Male Teachers) = 82

Total = 300

CI	Ff	Fm		H. W
-141	11 2	~	١.	$Mean X_f = 15.81$
-10	7 3	9	•	$\text{Mean } X_{\text{m}} = 10.18$
- 6	3 1	9		F = 11.72
- 2 - +	1 8	7		- M = 11.18
2 -	5 11	7		Standard Error
6 - -	9 25	11		
10 -	13 33	8		S.E. = $\left(\frac{-F^2}{n_1} + \frac{-T^2}{n_2}\right)$
14 -	17 30	7		Whereby
18 - 3	21 37	11		$n_1 = no$ of Females
22 - :	25 42	6		ı
26 – 3	29 17	, 5		$n_2 = no.$ of Females
30 – a	bo 9	2		S.E. = $\sqrt{\frac{41.72^2}{218}}$ $+\frac{41.18^2}{82}$
	· -	02		1 2.0
				= .63 + 1.53
			•	= 2.16
Xf - Xn				= 1.47

Difference: =
$$15.81 - 10.18$$

= 5.63

$$\frac{\text{Difference}}{\text{S.E.}} = \frac{5.63}{1.47} = \frac{3.83}{1.47}$$

The difference between means is greater than 1.96 S.E. at 5% level of significance and cannot be attributed to chance factor

C I = Class Interval

F_f = Frequency obtained among female teachers.

F = Frequency obtained among male teachers.

Testing the means for significance

(Attitudes towards adult sex roles)

SECTION I

(Government schools = 150

Non-government Schools = 150

Total = 300)

	and the second s	«Аладыкта» (т. 1947-ж.). Ф. 1940-ж. Аладының түк «Филир" (т. 1941-ж.). Аладында қарамында (т. 1941-ж.). Аладыктарында бұладында жарында бұладында жарында ж
C.I.	F _G F _{HG}	
-2824	2 -	$X_{17G} = 25.65$
-2319	2 ~ ~	Σ _G = 13.29
-1814	5. 4	$_{\text{CS}}$ NG = 16.8
-139	4 2	3 - G = 16.3
-84	9 3	T = TO
-3 - +1	13 5	S.E. = $\frac{G - HG^2}{n_1} + \frac{G - G^2}{n_2}$
2 - 6	21 9	$\int_{1}^{n_1} \frac{n_2}{n_2}$
7 - 11	13 11	Whereby
12 - 16	20 7	$n_1 = no.$ of teachers in
17 - 21	18 13	n ₁ = no. of teachers in Non-Govt. Schools
22 - 26	12 12 -	n = no. of teachers in
27 - 31	12 23	Govt. Schools
32 - 36	9 20	$=6.8^{2}$ 4.8^{2} 4.50
37 - 41	7 10	150 + 150
42 - 46	4 16	= 1.88 + 1.77
47 - 51	- 9	= 3.65
52 - 56	1 5	= 1.9.
57 - 61	0 1	Difference = $X_{NG} - X_{G}$
	150 150	= 25.65 - 13.29
		= 12.36

 $\frac{\text{Difference}}{\text{S.E.}} = \frac{12.36}{1.9} = 6.5$

The difference between means is greater than 1.96 S.E. at 5% level of significance hence cannot be attributable to chance factor.

C I = Class Interval F_G = Frequency obtained in Govt. Schools F_{NG} = Frequency obtained in non-Govt. schools

Testing the means for significance (Government Schools | 150 (Teacher behaviour in school) | vs | Non-government | 150

Non-government
Schools) = 150
Total = 300

CI	$\mathbf{F}_{\mathbf{G}}$	${f F}_{{f NG}}$	- Mariya, And Service, シー 内に 向に 向に 特に 中に 中に And Service And Service Service And Service Serv
-1411	1	1	$Mean X_G = 10.087$
-10 7	9	. 2.	Lean $X_{NG} = 17.693$
-63	.7	3	G = 9.4
- 2 - + 1	12	2	:NG ≈ 8.7
2 - 5	12	4	Standard Error
6 - 9	29	11	The state of the s
10 - 13	25	17	$0.E. = \sqrt{\frac{3 - \alpha^2}{n_1} + \frac{3 - n\alpha^2}{n_1}}$
14 - 17	16	22	Whereby
18 - 21 -	20	27	$n_1 = no.$ of Govt. teachers
22 – 25	12	34	n ₂ = no. of Govt. teachers
26 – 29 .	7	16	10.42 -0.12
30 & above	0	11	$= \sqrt{\frac{9.4^2}{150} + 0.8.7^2}$
	150	150	-589 + .505 = 1.094 = 1.04

The difference between means is greater than 1.96 S.E. at 5% level of significance and it cannot be attributed to change

C I = Class Interval

FG = Frequency obtained in Govt. Schools

Find = Frequency obtained in Non-govt. Schools

Appendix A-IX

Testing the means for significance (Co-educational (Attitude towards adult sex roles)

Schools =100

SECTION I

Non-Co-educational Schools

Total.

VU

=300

C.I.	$^{\mathrm{F}}_{\mathrm{C}}$	I, MC	-Andrew and the self of the se
- 28 - - 24	0	2	Hean i.e. $X_C = 20.7$
-2319	0	2	
-1814	0	. 7	Thean i.e. $T_{\text{NC}} = 18.9$
-139	3	3	Standard Error
-84	5	7	production of the second part of
-3 - +1	j# 5	13	S.E. = $\frac{C^2}{n_1} + \frac{NC^2}{n_2}$
2 - 6	9	21	$= \frac{16.89^2}{100} + \frac{17.93}{200}$
7 - 11	11	13	⊕ 190 <u>2</u> 500
12 - 16	13	14	$=\sqrt{2.85 + 1.607}$
17 - 21	11	20 .	= 4.457
22 - 26	3	21	= 2.11
27 - 31	8	.27	Difference $X_{C} - X_{EC} = 20.7 - 18.9 = 1.8$
32 ~ 36	9	19	
37 ~ 41	8;	11	$\frac{\text{Difference}}{\text{S.E.}} = \frac{1.8}{2.11} = .853$
42 - 46	9	11	
47 - 51	2	. 6	
52 ~ 56	4 .	2	
57 - 61	0 100	1 200	

Since the difference between means is less than 1.96 S.E. at 5, level of significance, it can be attributed to fluctuations of sampling.

C I = Class Interval

 F_{C} = Frequency obtained in Co-educational Schools

 $F_{\rm NC}$ = Frequency obtained in Non-Co-educational Schools

Appendix A-X

Testing the means for significance (Co-educational schools (Teacher attitude in school) vs

SECTION II Unisex schools = 20

Total = 30

CI	Fc	Filc	
-1411	. 3		$Mean X_{C} = 14.62$
-10 7	2	9 .	Hean X _{NC} = 13.26
- 6 - - 3	3	7	- C = 10.02
- 2 - + 1	6	8	- MC = 9.49
2 - 5	3]	13	Standard Error
6 - 9	14	26	1.7-a ² - wa ²
10 - 13	S	34	$5.A. = \sqrt{\frac{\sigma - g^2}{n_1} + \frac{x - NC^2}{n_2}}$
14 - 17	16	2:1	Wheneby
18 - 21	13	35	n ₁ = teachers in Co-ed
22 - 25	19	29	n ₂ = teachers of non-Co-ed
26 - 29	9	12	<u>.</u>
30 & above	5	6	$= 310.02^{2} + 100$
	100	2.00	= 1.004 + .45
			= \1.454
			= 1.21
			Difference = X _c - X _{nc}
•	•	•	14.62 - 13.26 = 1.36

 $\frac{\text{Difference}}{\text{U.E.}} = \frac{1.36}{1.21} = 1.124$

The difference between means is less than 1.96 S.E. at 5% level of significance and can be attributable to chance.

C I = Class Interval

F = Frequency obtained in Co-educational Schools

F = Frequency obtained in non Co-educational Schools

Appendix A-XI

Hindus = 254 Curistians = 42

Total = 296*

Testing the means for significance SECTION I

(Attitude towards adult sex roles)

$$X_{H} = 18.51$$
 $X_{C} = 26.29$
 $= 17.52$
 $= 0.05$

Standard Error

S.E. =
$$\frac{3 \cdot 1^2}{n_1} + \frac{2^2}{n_2}$$

Whereby

$$n_1$$
 = no. of Hindus
 n_2 = no. of Christians
= $\sqrt{\frac{17.37}{25.4}} + \frac{14.05^2}{42}$
= $\sqrt{\frac{1.18 + 4.7}{25.88}}$
S.E. = 2.4

Difference =
$$X_C - X_H = 26.29 - 18.31 = 7.98$$

$$\frac{\text{Difference}}{\text{S.E.}} = \frac{7.98}{2.4} = 3.53$$

The difference is more than 1.96 S.E. at 5% level of significance, and cannot be attributed to fluctuations of sampling.

^{* 4} Muslim teachers deleted in analysis.

Appendix A-XII

Hindus = 254Christians= 42Total = 296*

Testing the means for significance

SECTION II

(Teacher attitude in School)

$$I_{\rm H}$$
 = 12.89
 $I_{\rm C}$ = 17.69
. H = 10.4
. C = 6.29
. Standard Error
S.E. = $\sqrt{\frac{-1^2}{n_1} + \frac{5^2}{n_2}}$
. Whereby
 $I_{\rm L}$ = no. of Hindus
 $I_{\rm L}$ = no. of whristians
= $\sqrt{\frac{10.4^2}{254} + \frac{6.29^2}{42}}$
= $\sqrt{\frac{.426 + .942}{254}}$
= 11.368
= 1.17
Difference = $I_{\rm C}$ - $I_{\rm H}$ = 17.69 - 12.89 = 4.8

Difference = $\chi_{C} - \chi_{H} = 17.69 - 12.89 = 4.8$ Difference = $\frac{4.8}{5.E.} = \frac{4.8}{1.17} = 4.1$

The difference is greater than 1.96 S.E. and cannot be attributed to fluctuations of random sampling.

^{* 4} Muslim teachers deleted in analysis

Appendix A-XIII(a)

Age group A = 111Age group B = 120

Testing the means for significance Age group 25 - 33 (A) and Age group 34 - 44 (B) SECTION I

(Attitude towards adult sex roles)

$$X_A = 22.73$$
 $X_B = 18.06$
 $-A = 17.25$
 $-B = 16.29$

. . . .

Standord Error

S.E. =
$$\frac{\sigma - 1^2}{n_1} + \frac{\sigma^2 2^2}{n_2}$$

Whereby

$$= \frac{17.25^{2}}{111} \cdot \frac{16.29^{2}}{120}$$

$$= \frac{2.631 + 2.211}{120}$$

$$S.B. = 2.21$$

Difference = $I_A - I_B = 22.73 - 18.06 = 4.67$

$$\frac{\text{Dirference}}{\text{S.E.}} = \frac{4.67}{2.21} = 2.113$$

The difference is more than 1.96 S.E. at 5% level of significance and cannot be attributed to fluctuations of sampling.

Testing the means for significance Age group 23 - 33 (A) and Age group 45 and above (C) SECTION I

(Attitude towards adult sex roles)

Age group A = 111

Age group C = 69

$$X_A = 22.73$$
 $X_C = 16.93$
 $A = 17.25$
 $C = 17.93$

Standard Error

S.E. =
$$\int \frac{s^2 + \frac{1^2}{n_1} + \frac{3}{n_2}}{n_2}$$

Whereby

$$n_1$$
 = no. of teachers in age group 23 - 33

no en of teachers in age group 45 and above

$$= \frac{17.25^2 \times 17.93^2}{111} + \frac{17.93^2}{69}$$

$$=$$
 2.7

Difference = $X_A - X_C = 22.73 - 16.93 = 5.8$

$$\frac{\text{Difference}}{\text{S.E.}} = \frac{5.8}{2.7} = 2.148$$

The difference is more than 1.96 S.E. at 5% level of significance and cannot be attributed to fluctuations of sampling.

Appendix A-XIII(c)

Age group B = 120Age group C = 69

Testing the means for significance Age group 34-44 (B) and Age group 45 and above (C)

SECTION I

(Attitude towards adult sex roles)

$X_{\mathbf{B}}$	=	18,06
X.C	=	16.93
B	=	16.29
: - C	=	17.93

Standard Error

S.E. =
$$\int \frac{\tau_1^2}{n_1} + \frac{\sigma_2^2}{n_2}$$

Whereby

= no. of teachers in age group 34 - 44 n

= no. of teachers in age group 45 and above n₂

$$= \int \frac{16.29^2}{111} \int \frac{17.93^2}{69}$$

$$= \int 2.11 + 4.659$$

$$= \int 6.679$$

Difference = $X_B - X_C = 18-06 - 16.95 = 1.13$

$$\frac{\text{Difference}}{6.6.} = \frac{1.13}{2.58} = .438$$

The difference is less than 1.96 S.E. at 5/3 level of significance and it can be attributed to fluctuations of sampling.

Appendix A-XIV(a)

Age group A = 111Age group B = 120

Testing the means for significance Age group 23-35 (A) and Age group 34-44 (B)

100

SECTION II

(Teacher attitude in school)

$$K_A$$
 = 16.05
 K_B = 12.7
 A = 10.88
 A = 9.37

Standard Error

S.E. =
$$\sqrt{\frac{n_1^2}{n_1} + \frac{6^2 2^2}{n_2}}$$

Whereby

$$n_1$$
 = no. of teachers in age group 23 - 33
 n_2 = no. of teachers in age group 34 - 44
= $\sqrt{\frac{10.8^2}{111}} + \frac{9.37^2}{120}$
= $\sqrt{\frac{1.051}{1.732}}$

Difference =
$$X_A - X_B = 16.03 - 12.7 = 3.33$$

$$\frac{\text{Difference}}{\text{S.E.}} = \frac{5.33}{1.33} = 2.5$$

All hard

The difference is greater than 1.96 S.E. at 5% level of significance and cannot be attributed to fluctuations of sampling.

Appendix A-XIV (b)

Age group A = 111Age group C = 69

Testing the means for significance Age group 23-33 (A) and 45 and above (C)

SECTION II

(Teacher attitude in school)

$$X_A = 16.03$$
 $X_C = 10.42$
 $-A = 10.8$
 $+ 0 = 10.06$

Standard Error

S.E. =
$$\sqrt{\frac{\sigma-1^2}{n_1} + \frac{\sigma-2^2}{n_2}}$$

Uhereby

$$n_1$$
 = no. of Teachers in age group 23 - 33

$$= \frac{10.8^2}{111} + \frac{10.06^2}{69}$$

Difference =
$$X_A - X_C = 16.03 - 12.42 = 3.61$$

$$\frac{\text{Difference}}{\text{S.E.}} = \frac{3.51}{1.6} = 2.26$$

Difference is greater than 1.96 S.E. at 5% level of significance and cannot be attributed to fluctuations of sampling.

Appendix A-XIV (C)

Age group B = 120Age group C = 69

Testing the means for significance

Age group 34-44 (B) and Age group (c) 45 and above

SECTION II

(Teacher attitude in school)

$$X_B = 12.7$$
 $X_C = 12.42$
 $B = 9.57$
 $C = 10.06$

Standard Error

S.E. =
$$\int \frac{1^2}{n_1} + \frac{\sigma \cdot 2^2}{n_2}$$

Whereby

 n_1 = no. of teachers in age group 34 - 44

n₂ = no. of teachers in age group 45 & abo

$$= \sqrt{\frac{9.37^2}{120} + \frac{10.06^2}{69}}$$
$$= \sqrt{\frac{.752 + 1.466}{120}}$$

Difference =
$$X_B - X_C = 12.7 - 12.42 = .28$$

$$\frac{\text{Difference}}{\text{N.E.}} = \frac{.28}{1.48} = .189$$

The difference is less than 1.96 S.E. at 5% level of significance and can be attributable to fluctuations of sampling.

Appendix A-XV(a)

Males = 82

Fenales = 213

Potal = 300

Testing the significance of mean, between male and female teachers

Role of Woman as person

$$X_{\rm F}$$
 = 13.54
 $Y_{\rm 11}$ = 7.00
 $Y_{\rm F}$ = 7.74
 $Y_{\rm B}$ = 8.76
Standard Error
S.E. = $\sqrt{\frac{1^2}{n_1}} + \frac{\sqrt{2^2}}{n_2}$
Whereby
 $Y_{\rm B}$ = no. of females
 $Y_{\rm B}$ = no. of males
 $Y_{\rm B}$ = 1.211
S.E. = 1.1
Difference = $X_{\rm F}$ - $X_{\rm B}$ = 15.54 - 7.0 = 6.54
Difference 6.54 = 5.95

The difference is more than 1.96 S.E. at 5% level and cannot be attributed to fluctuations of sampling.

Appendix A-XV(b)

Males = 82 Females = 218

Total = 300

Testing the significance of means between male and female teachers Women as housewife/mother

S.E. =
$$\sqrt{\frac{-1^2}{n_2} + \frac{-2^2}{n_2}}$$

Whereby

$$n_1 = no. of females$$

$$n_2 = no. of males$$

$$= \sqrt{\frac{5.54^2}{218} + \frac{7.32^2}{82}}$$

S.E.
$$=$$
 .92

Difference =
$$X_F - X_H = 2.84 - (-.67) = 3.51$$

$$\frac{\text{Difference}}{\text{S.E.}} = \frac{3.51}{.92} = 3.81$$

The difference is greater than 1.96 S.E. at 5% level of significance and cannot be attributed to fluctuations of sampling.

Appendix A-XV(c)

Males = 82

Females = 218

Total = 300

Testing the Significance of means between male and female teachers Women as Worker

$$X_{\rm F} = 7.19$$
 $X_{\rm M} = 2.04$

F = 5.28

FI = 5.34

Standard Error

S.E. = $\frac{12}{n_1} \cdot \frac{-2^2}{n_2}$

Whereby

 $n_1 = n_0 \cdot \text{of femaler}$
 $n_2 = n_0 \cdot \text{of nales}$
 $= \frac{5.28^2}{218} \cdot \frac{-5.34^2}{82}$
 $= \frac{128 + .348}{.476}$

S.E. = .69

Difference = $X_{\rm F} - X_{\rm H} = 7.19 - 2.04 = 5.15$

$$\frac{\text{Difference}}{\text{S.E.}} = \frac{5.15}{.69} = 7.46$$

The difference is greater than 1.96 S.E. at 5% level of significance and cannot be attributed to fluctuations of sampling.

Appendix A - Hale Biases

Statements on which scores reveal strong biases of male respondents

(a) Vomen as Housewife

- Q.2 A successful marriage requirer greater adjustment on the part of the woman than man Agreement of 58.54% men.
- Q.5 Ren should not sacrifice their professional ambitions in favour of domestic obligation while women should Agreement of 48.78% men.
- Q.8 Many emotional adjustment problems of children are primarily due to women working outside home Agreement of 64.63% men.
- Q.11 Possibility of marital disharmony is greater where wives are successful career women Agreement of 54.88% men.
- Q.17 Even when both the spouses work, it should still be the duty of women to attend to household task and take care of children Agreement of 48.78% men.
- Q.20 After marriage a man should take decisions on important financial matters leaving the decisions of home task and children to women Agreement of 47.56 men.
- Q.26 Harriage not career is the ultimate goal of women Agreement of 45.12% ren.

(b) Women as Worker

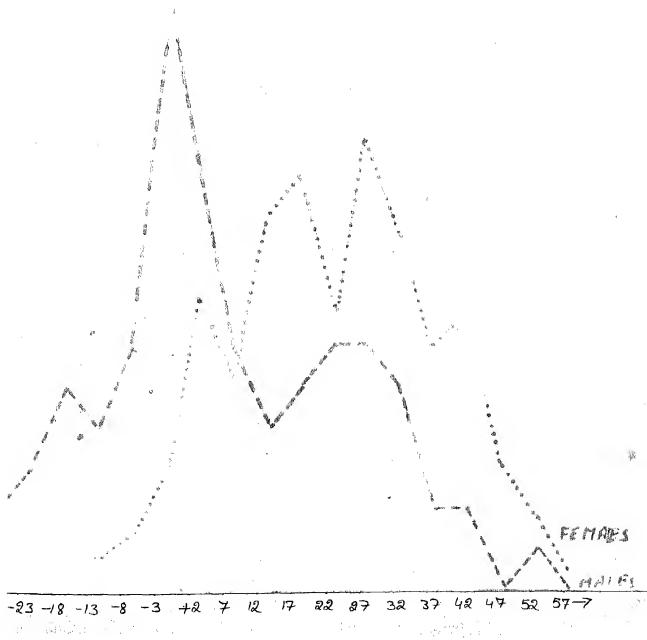
- Q.6 Career should take precedence over everything else in the life of a women regardless of their marital status -Disagreement of 41.46% men.
- Q.12 Women handle routine, repetetive tasks better than creative and innovative ones Agreement of 43.9% men.
- Q.15 Jobs for women should be limited to those which are extension of home tasks such as teaching Agreement of 56% men.
- Q.30 Dual responsibility of home and work cripple women emotionally and mentally Disagreement of 63.4%.

(b) Women as Worker

- Q.6 Career should take precedence over everything else in the life of a women regardless of their marital status -Disagreement of 41.46% men.
- Q.12 Women handle routine, repetetive tasks better than creative and innovative ones Agreement of 43.9% men.
- Q.15 Jobs for women should be limited to those which are extension of home tasks such as teaching Agreement of 56% men.
- Q.30 Dual responsibility of home and work cripple women emotionally and mentally Disagreement of 63.4%. men.

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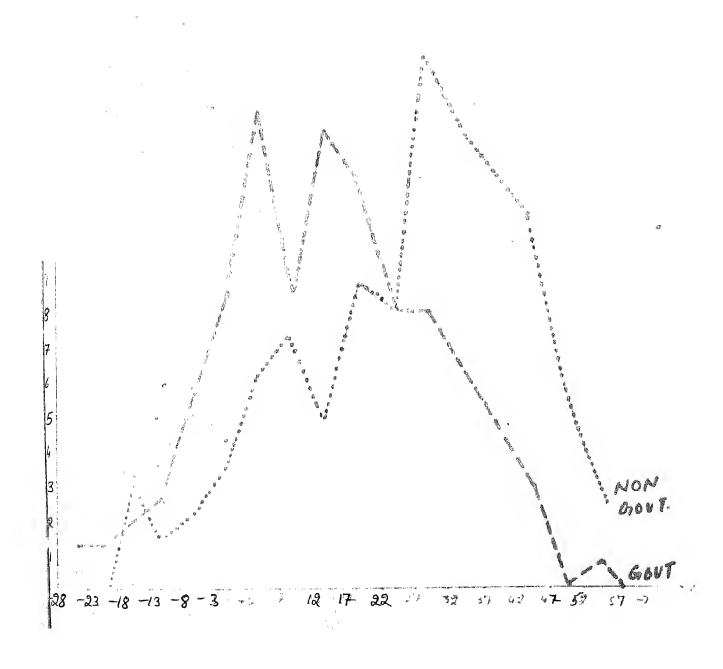
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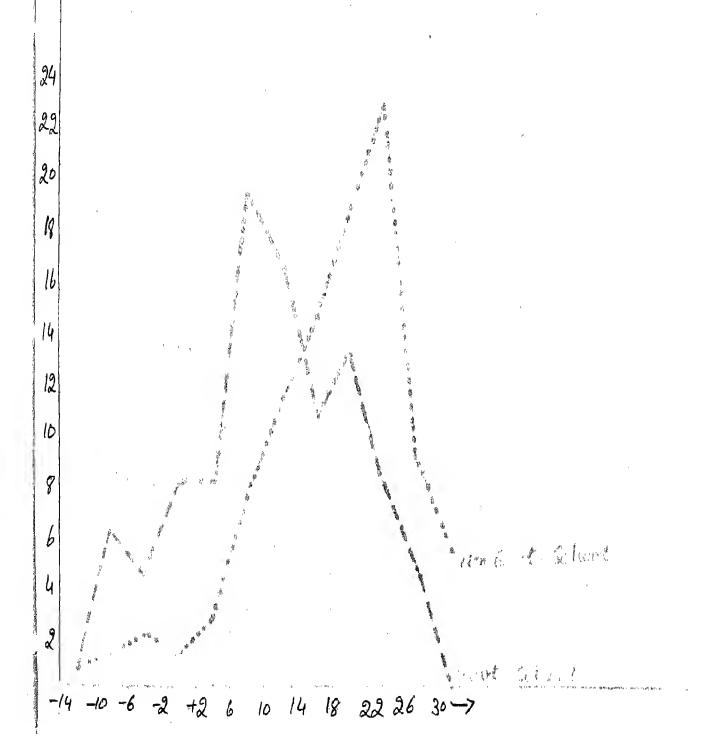
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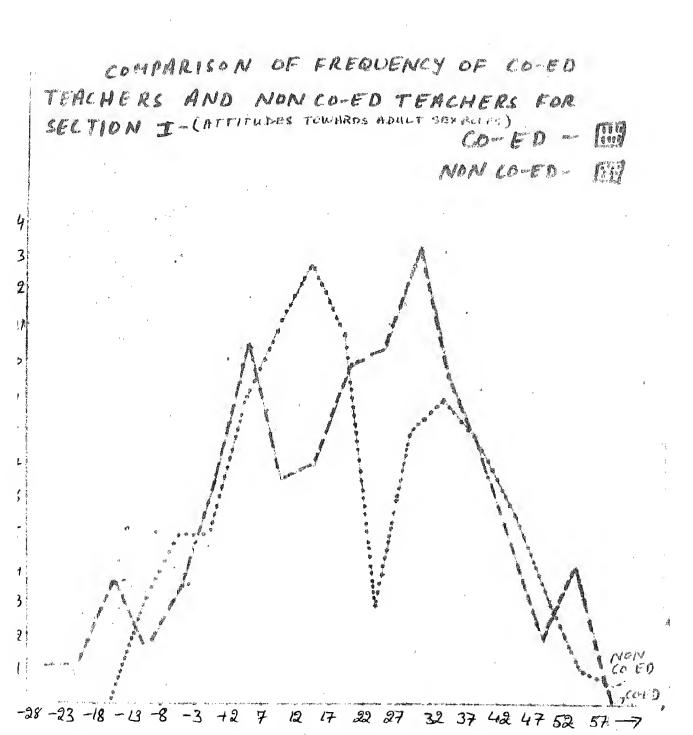
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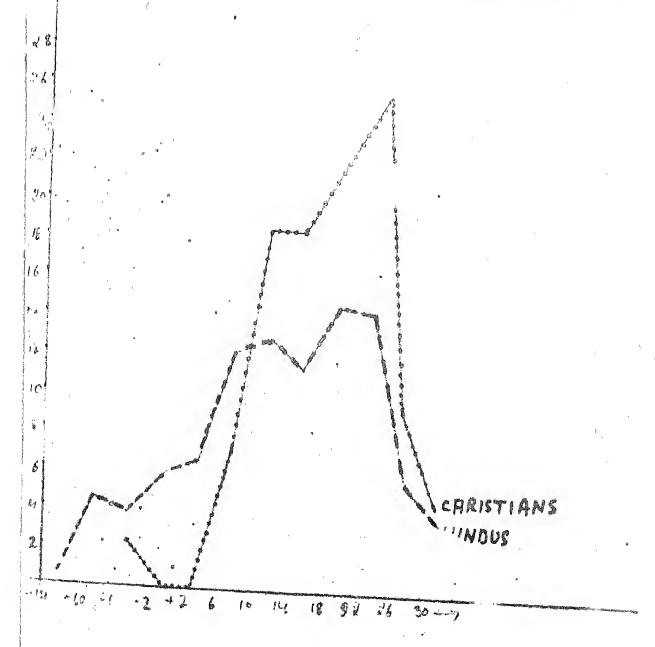
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-23 -18-13-5-3+2 7 12 17 22 27 32 37 42 47 52 52-7



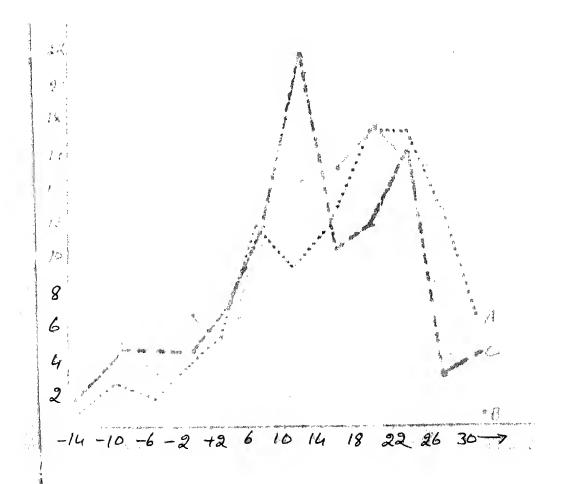
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AGE GROUPS FOR SECTION TO





THACKERS ORIENTATION COURSE ON SERISH

(Unpublished Report)

By: MISCHOL K

Sponsored by: The Indian Federation of University Womens!

Association

Financed by : UNICEF

This study was conducted in 1977 with the main objective of orienting teachers with regard to the concept of sexism, thereby creating an awareness among them of any existing sexist *11 practises in their school.

Being the first attempt in developing an orientation course, this study further proposed to determine whether the proposed orientation course prompted teachers to change their attitude and methods of classrooms instruction.

If found to be successful in modifying teacher attitudes the proposed orientation course would provide a model programme that could be included in future teacher-training courses.

SALIPLE

The participants in the course were twelve class teachers of the W.D.M.C. Frimary school - ten females and two males.

TETHODOLOGY

Before begining the course, the project director, the consultant and an observer observed the teachers in their classrooms to note whether they were transmitting sexist messages to their students in the course of normal classroom conduct.

^{*11} Discriminatory attitude/behaviour in favour/against

The teacher group was then exposed to a film slide show (an audio visual tool produced in U.S.A. in English - unadapted to suit Indian conditions). Alongside

- (a) personality rating scale and
- (b) attitudinal questionnaire was given to the group for completion. The pre and post orientation scores obtained on the questionnaire were later compared.

On completion of the Orientation Course, expert observers again recorded their observations in the classrooms of those teachers exposed to the course. Thus an objective evaluation of the orientation course was obtained through a linear comparison of pre and post a tritudual scores and observation of expert observers. Subjective evaluation of the course was done by the participants on a self evaluating form.

The study revealed that: --

- 1. Prior to the exposure to the Orientation Course, the participants were not aware of the presense of sexist bias in their attitudes. As a consequence of the present exposure, participants become conscious of the imperceptible ways in which they were reflecting gender biases.
- 2. Teachers felt that they could make positive contribution towards correcting these bias by altering their attitude in the classroom.



Considering that none of the Chi Square tests was found to be significant at 1% level of significance with 2 degrees of freedom, the results obtained were presented on the basis of averages.

FINDINGS

At the outset it was noted that the textbooks revealed sexist bias.

- --Male-centered stories outnumbered female-centered stories by 81 to 9.
- --Illustrations depicting male figures exclusively outnumbered those depicting females by 263 to 75; there were 98 illustrations of male and female figures together in which the former almost always predominated.
- --Biographical references to males outnumbered female references by 78 to 3.
- -- "Role absence" as far as women were concerned, rather than role stereotyping, was a significant feature of the stories in which women appeared.
- --Women were not given names in 50 per cent of the stories in which they were mentioned.
 - --The impression conveyed by the textbooks was that women were not expected to achieve socially-worthwhile goals.

Other than the imbalanced images of adult males and females, the portrayal of girls was very negligible. They were depicted as passive and dull individuals. It appeared that they were always reprimanded for mischief while boys were who were naughty were admired. Boys and girls were never shown making a combined effort towards a goal.

The family life was also portrayed, with the characteres never suffering from misfortune.

On the whole, the images of men/boys and women/ girls were unrealistic and inconsistent with national goals.

Influence of Exposure to Educational materials & teacher attitudes on school childrens attitudes towards sex role in society - Kerala

(Financed by Ford Foundation - Delhi)

(Unpublished Report - 1979) NISCHOL K

This study was conducted in Trivandrum and Ottapalam. The sample was drawn from among those teachers, teaching in lower primary schools - aided/administratively controlled by the Government. In the final outcome, the sample comprised of 303 teachers (79 males and 224 females) in Trivandrum while 200 teachers (61 males and 139 females) in Ottapalam.

Objective

The study was concerned with:-

- (a) Text book evaluation and
- (b) Evaluation of total school engagience in respect of teacher attitude/behaviour and co-curricular activities in schools.

In the latter case, attention was focussed primarily on societys' sexually-stereotyped assumptions regarding "prevailing" and "acceptable" adult role images and expectations.

Methodology

Following the selection of the sample in both the towns, an attitude questionnaire in Malayalam (self-administered) was given to the groups. This questionnaire was divided into 2 sections. The questionnaire response were indicated on a 5 point scale - each point on the scale being given a numerical score. The numerical

scores on each statement were combined to give a composite score for each section in both towns.

Subsequent to the scoring, percentile norms were calculated seperately for both the towns by sex and age of the respondents.

Findings

- In respect of attitude of teachers (primary)

 towards adult sex roles in both towns the

 dispersion of scores was very wide indicating

 that in Trivandrum as well as Ottapalan there

 were teachers of both sexes who were in favour

 and against liberalisation of existing constraints

 on female development. Comparitively speaking

 O'tapalan teachers revealed greater traditionalism.
- 2. In both the towns, as against female teachers, the autitude of male tempers reflected greater liberality. Apparently, women had intermalised barriers against freedom from the hold of traditional roles.
- 3. With regard to teacher attitudes towards students in the school setting, both male & female primary school teachers in Trivandrum & Ottapalam showed a tendency towards simil in treatment & behaviour towards boy/girl child.

The point to note, however, was that despite the differences in the mean score of male & female teachers, in both the towns of Trivandrum & observable Ottapallam, the differences in their mean scores on their attitude towards adult sex roles were not statistically different — indicating the

observable differences could be due to sample fluctuation. In Trivandrum, however, the attitudes of male & female teachers in school setting showed statistically significant differences — male teachers showing greater length towards girl students.

Analysis of the responses by age in both the towns revealed that there was an inverse relationship between higher age group (i.e. 45 years & above) and liberalisation of female roles. This result was true in respect of teacher attitude towards adult sex roles as well as their attitude towards children in the school setting.

Although this study was micro in nature making it difficult to draw conclusions with confidence, yet the indications were that in Trivandrun & Ottapalam (both having a society metrolineal in nature) the attitude of male teachers towards adult sex holes were relatively more favourably inclined towards less restrictive roles of women. Possibly, menfolk in such societies have been accustomed to seeing females in positions of authority in work place as well as on the domestic front.

Comparision of results on this study with those done earlier in Delhi/Bombay revealed that attitude of male teachers differed noticably among primary school teachers in patriarcical societies of Delhi & Bombay as against teachers in matrilineal societies of Trivandrum & Ottapalam. In the latter towns, the male teachers were more in favour of giving opportunity to females to actualise their potential, have freedom to take employment of their choice and to be partners in decision making at home.